

ABSTRACT

The present invention provides a small sized on board image processing apparatus with high detection performances of objects, such as a run lane. The apparatus that recognizes surrounding objects of a vehicle, based on image signals obtained by picking-up the circumference of the vehicles with an image pick-up device, the image pick-up device being equipped with a first pixel row area which has sensitivity to visible light and a second pixel row area which has sensitivity to invisible light alternatively, wherein the apparatus further comprises an image signal processing section for recognizing the objects using visible light zone image signals obtained from the first area and image signals obtained from the second area.